

In the Claims:Please amend the claims as follows:

1. (Amended) A drive control for an electric drive having a high level of control dynamics in the form of a meshed control structure comprising a rotational speed control loop, a current control loop arranged inside said rotational speed control loop, the rotational speed control loop comprising a controller with a proportional component and integral component and as well as a phase saving lowpass filter selected from the group consisting of a PDT2 element and a Cauer filter for suppressing resonances in the controlled system, said filter tuned to the resonances to be suppressed with regard to frequency range and amplitude reduction.

Claim 2 is deleted.

3. (Amended) The drive control according to claim 1, wherein the rotational speed control is configured as a digital controller with a processor which implements the PDT2 element in accordance with the following second order differential equation:

$$u_k = V_F * (e_k + a_1 e_{k-1} + a_0 e_{k-2}) - u_{k-1} b_1 - u_{k-2} b_0,$$

where u_k is the filter output in the computing cycle k , and e_k is the filter input in the computing cycle k .

Claim 4 is deleted.

5. (Amended) The drive control according to claim 1, wherein said Cauer filter is of a second order.

Claim 6 - original

a⁵ 7. (Amended) The drive control according to claim 1 4, wherein said Cauer filter is of an eighth order.

Claims 8 and 9 - original.

a⁶ 10. (Amended) A method for suppressing resonances in a ~~the~~ controlled system of a control for an electric drive comprising using ~~introducing~~ a PDT2 filtering element into the control system.

11. (Amended) A method for suppressing resonances in a ~~the~~ controlled system of a rotational speed control for an electric drive comprising using ~~introducing~~ a PDT2 filtering element into the control system.

12. (Amended) A method for suppressing resonances in a ~~the~~ controlled system of a control for an electric drive comprising using ~~introducing~~ a Cauer filter into the control system.

13. (Amended) A method for suppressing resonances in a ~~the~~ controlled system of a rotational speed control for an electric drive comprising using ~~introducing~~ a Cauer filter into the control system.
